



PTO/SB/08A (08-03)

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet

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of

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**Complete if Known**

Application Number	11/039,111
Filing Date	January 19, 2005
First Named Inventor	Richard J. Melker
Group Art Unit	1743
Examiner Name	Not yet assigned
Attorney Docket Number	UF-404XC1

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Code <sup>2</sup>	Kind (if known)			
	U1	3,567,029		03-02-1971	Quame	
	U2	3,792,272		02-12-1974	Harte <i>et al.</i>	
	U3	3,608,546		09-28-1971	Shinn	
	U4	3,649,199		03-14-1972	Littlejohn	
	U5	3,877,291		4-15-1975	Hoppesch <i>et al.</i>	
	U6	3,951,607		04-20-1976	Fraser	
	U7	3,955,926		5-11-1976	Fischer	
	U8	4,150,670		04-24-1979	Jewett <i>et al.</i>	
	U9	4,202,352		05-13-1980	Osborn	
	U10	4,215,409		07-29-1980	Strowe	
	U11	4,312,228		01-26-1982	Wohltjen	
	U12	4,314,564		02-09-1982	Albarda	
	U13	4,334,540		6-15-1982	Preti <i>et al.</i>	
	U14	4,346,584		08-31-1982	Boehringer	
	U15	4,361,026		11-30-1982	Muller <i>et al.</i>	
	U16	4,349,626		9-14-1982	Labows <i>et al.</i>	
	U17	4,399,686		8-23-1983	Kindlund <i>et al.</i>	
	U18	4,432,226		02-21-1984	Dempster	
	U19	4,456,014		06-26-1984	Buck <i>et al.</i>	
	U20	4,534,360		8-13-1985	Williams	
	U21	4,734,777		3-29-1988	Okino <i>et al.</i>	
	U22	4,735,777		04-05-1988	Mitsui <i>et al.</i>	
	U23	4,772,559		9-20-1998	Preti <i>et al.</i>	
	U24	4,796,639		01-10-1989	Snow <i>et al.</i>	
	U25	4,868,545		09-19-1989	Jones	
	U26	4,895,017		1-23-1990	Pyke <i>et al.</i>	
	U27	4,938,928		7-03-1990	Koda <i>et al.</i>	

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Date  
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		Number Code <sup>2</sup>	Kind (if known)			
	U28	4,992,244		2-12-1991	Grate	
	U29	5,003,985		04-02-1991	White <i>et al.</i>	
	U30	5,034,192		7-23-1991	Wrighton <i>et al.</i>	
	U21	5,042,501		8-27-1991	Kenny <i>et al.</i>	
	U32	5,060,506		10-29-1991	Douglas	
	U33	5,071,770		12-10-1991	Kolesar, Jr.	
	U34	5,081,871		1-21-1992	Glaser	
	U35	5,082,630		01-21-1992	Partin <i>et al.</i>	
	U36	5,094,235		03-10-1992	Westenskow <i>et al.</i>	
	U37	5,111,827	A	05-12-1992	Rantala	
	U38	5,137,692	A	8-11-1992	Fritz	
	U39	5,145,645	A	9-08-1992	Zakin <i>et al.</i>	
	U40	5,167,972	A	12-01-1992	Greenberg <i>et al.</i>	
	U41	5,179,027	A	01-12-1993	Fisher	
	U42	5,252,292	A	10-12-1993	Hirata <i>et al.</i>	
	U43	5,296,706	A	03-22-1994	Braig <i>et al.</i>	
	U44	5,303,575	A	04-19-1994	Brown <i>et al.</i>	
	U45	5,317,156	A	05-31-1994	Cooper <i>et al.</i>	
	U46	5,325,704	A	7-05-1994	Mariani <i>et al.</i>	
	U47	5,351,522	A	10-04-1994	Lura	
	U48	5,361,771	A	11-08-1994	Craine <i>et al.</i>	
	U49	5,409,839	A	04-25-1995	Balestrieri <i>et al.</i>	
	U50	5,425,374	A	06-20-1995	Ueda <i>et al.</i>	
	U51	5,447,165	A	09-05-1995	Gustafsson	
	U52	5,453,359	A	09-26-1995	Gargan <i>et al.</i>	
	U53	5,465,608	A	11-14-1995	Lokshin <i>et al.</i>	
	U54	5,466,700	A	11-14-1995	Batenhorst <i>et al.</i>	
	U55	5,482,601	A	1-09-1996	Ohshima <i>et al.</i>	

Examiner  
Signature

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Substitute for form 1449A/PTO				<div>Complete if Known</div> <table border="1"> <tr> <td>Application Number</td> <td>11/039,111</td> </tr> <tr> <td>Filing Date</td> <td>January 19, 2005</td> </tr> <tr> <td>First Named Inventor</td> <td>Richard J. Melker</td> </tr> <tr> <td>Group Art Unit</td> <td>1743</td> </tr> <tr> <td>Examiner Name</td> <td>Not yet assigned</td> </tr> <tr> <td>Attorney Docket Number</td> <td>UF-404XC1</td> </tr> </table>		Application Number	11/039,111	Filing Date	January 19, 2005	First Named Inventor	Richard J. Melker	Group Art Unit	1743	Examiner Name	Not yet assigned	Attorney Docket Number	UF-404XC1
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	U56	5,495,744	A	03-05-1996	Ueda <i>et al.</i>	
	U57	5,501,212	A	03-26-1996	Psaros	
	U58	5,528,924	A	06-25-1996	Wajid <i>et al.</i>	
	U59	5,547,878	A	8-20-1996	Kell	
	U60	5,558,083	A	09-24-1996	Bathe <i>et al.</i>	
	U61	5,560,352	A	10-01-1996	Heim <i>et al.</i>	
	U62	5,634,517	A	06-03-1997	Linden <i>et al.</i>	
	U63	5,573,005	A	11-12-1996	Ueda <i>et al.</i>	
	U64	5,573,955	A	11-12-1996	Khanna <i>et al.</i>	
	U65	5,605,612	A	2-25-1997	Park <i>et al.</i>	
	U66	5,645,072	A	7-08-1997	Thrall <i>et al.</i>	
	U67	5,716,852	A	02-10-1998	Yager <i>et al.</i>	
	U68	5,756,879	A	5-26-1998	Yamagishi <i>et al.</i>	
	U69	5,771,890	A	06-30-1998	Tamada	
	U70	5,776,783	A	07-07-1998	Kell	
	U71	5,783,154	A	7-21-1998	Althainz <i>et al.</i>	
	U72	5,783,449	A	7-21-1998	Kuznetsov	
	U73	5,795,787	A	08-18-1998	Silkoff <i>et al.</i>	
	U74	5,801,297	A	09-01-1998	Mifsud <i>et al.</i>	
	U75	5,826,577	A	10-27-1998	Perroz <i>et al.</i>	
	U76	5,830,412	A	11-03-1998	Kimura <i>et al.</i>	
	U77	5,861,254	A	1-19-1999	Schneider <i>et al.</i>	
	U78	5,891,398	A	04-06-1999	Lewis <i>et al.</i>	
	U79	5,900,552	A	05-04-1999	Chu <i>et al.</i>	
	U80	5,918,257	A	06-29-1999	Mifsud <i>et al.</i>	
	U81	5,925,014	A	07-20-1999	Teeple Jr.	
	U82	5,928,167	A	07-27-1999	Wagner <i>et al.</i>	
	U83	5,932,877	A	08-03-1999	Braig <i>et al.</i>	
	U84	5,945,069	A	08-31-1999	Buehler	
	U85	5,950,630	A	9-14-1999	Portwood <i>et al.</i>	
	U86	5,954,685	A	9-21-1999	Tierney	

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# ALL REFERENCES

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	U87	5,958,896	A	09-28-1999	Renshaw <i>et al.</i>	
	U88	5,962,335	A	10-05-1999	Katzman	
	U89	5,971,937	A	10-26-1999	Ekstrom	
	U90	5,996,586	A	12-07-1999	Phillips	
	U91	6,007,775	A	12-28-1999	Yager	
	U92	6,010,459	A	1-04-2000	Silkoff <i>et al.</i>	
	U93	6,025,200	A	02-15-2000	Kaish <i>et. al</i>	
	U94	6,057,162	A	5-02-2000	Rounbehler <i>et al.</i>	
	U95	6,063,243	A	5-16-2000	Zettl <i>et al.</i>	
	U96	6,067,167	A	5-23-2000	Atkinson <i>et al.</i>	
	U97	6,074,345	A	06-13-2000	Van Oostrom <i>et al.</i>	
	U98	6,085,576	A	7-11-2000	Sunshine <i>et al.</i>	
	U99	6,094,681		07-25-2000	Shaffer <i>et al.</i>	
	U100	6,097,485	A	08-01-2000	Lievan	
	U101	6,120,443	A	09-19-2000	Cohen-Laroque	
	U102	6,131,571	A	10-17-2000	Lampotang <i>et al.</i>	
	U103	6,136,801	A	10-24-2000	Kell	
	U104	6,153,147	A	11-28-2000	Craig	
	U105	6,180,414	B1	01-30-2001	Katzman	
	U106	6,186,977	B1	02-13-2001	Andrews <i>et al.</i>	
	U107	6,190,858	B1	2-20-2001	Persaud <i>et al.</i>	
	U108	6,203,814	B1	3-20-2001	Fisher <i>et al.</i>	
	U109	6,216,690	B1	04-17-2001	Keitel <i>et al.</i>	
	U110	6,221,026	B1	4-24-2001	Phillips	
	U111	6,234,006	B1	05-22-2001	Sunshine <i>et al.</i>	
	U112	6,237,397	B1	05-29-2001	Shinar <i>et al.</i>	
	U113	6,244,096	B1	6-12-2001	Lewis <i>et al.</i>	
	U114	6,248,078	B1	6-19-2001	Risby <i>et al.</i>	
	U115	6,251,082	B1	06-26-2001	Rayburn	
	U116	6,261,783	B1	7-17-2001	Jayasena <i>et al.</i>	

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	U117	6,264,913	B1	07-24-2001	Wagner	
	U118	6,277,081	B1	08-21-2001	Susi <i>et al.</i>	
	U119	6,283,953	B1	09-04-2001	Ayer <i>et al.</i>	
	U120	6,303,316	B1	10-16-2001	Kiel <i>et al.</i>	
	U121	6,305,212	B1	10-23-2001	Drzewiecki	
	U122	6,312,390	B1	11-06-2001	Phillips	
	U123	6,319,724	B1	11-20-2001	Lewis <i>et al.</i>	
	U124	6,328,708	B1	12-11-2001	Georgieff	
	U125	6,341,520	B1	01-29-2002	Satoh <i>et al.</i>	
	U126	6,363,772	B1	4-02-2002	Berry	
	U127	6,387,329	B1	5-14-2002	Lewis <i>et al.</i>	
	U128	6,399,302	B1	6-04-2002	Lannigan <i>et al.</i>	
	U129	6,416,479	B1	07-09-2002	Seidman	
	U130	6,455,319	B1	09-24-2002	Lewis <i>et al.</i>	
	U131	6,467,333	B2	10-22-2002	Lewis <i>et al.</i>	
	U132	6,479,019	B1	11-12-2002	Goldstein <i>et al.</i>	
	U133	6,495,824	B1	12-17-2002	Atkinson	
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	U138	6,599,253	B1	07-29-2003	Baum <i>et al.</i>	
	U139	6,599,281	B1	07-29-2003	Struys <i>et al.</i>	
	U140	6,620,800	B1	09-16-2003	Roberts II	
	U141	6,631,333	B1	10-07-2003	Lewis <i>et al.</i>	
	U142	6,680,377	B1	01-20-2004	Stanton <i>et al.</i>	
	U143	6,727,075	B2	04-27-2004	Fitzgerald <i>et al.</i>	
	U144	6,755,783	B2	06-29-2004	Cosentino <i>et al.</i>	
	U145	2001/0041366	A1	11-15-2001	Lewis <i>et al.</i>	

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Sheet 6 of 12

**Complete if Known**

Application Number	11/039,111
Filing Date	January 19, 2005
First Named Inventor	Richard J. Melker
Group Art Unit	1743
Examiner Name	Not yet assigned
Attorney Docket Number	UF-404XC1

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Code <sup>2</sup>	Kind (if known)			
	U146	2001/0021815	A1	09-13-2001	Katzman <i>et al.</i>	
	U147	2001/0046674	A1	11-29-2001	Ellington	
	U148	2001/0050228	A1	12-13-2001	Jaeger	
	U149	2001/0055544	A1	12-27-2001	Copp	
	U150	2002/0007687	A1	01-24-2002	Zimmermann <i>et al.</i>	
	U151	2002/0007249	A1	01-17-2002	Cranley <i>et al.</i>	
	U152	2002/0014236	A1	02-07-2002	Dittmann <i>et al.</i>	
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	U155	2002/0034757	A1	3-21-2002	Cubiciotti	
	U156	2002/0173729	A1	11-21-2002	Viertio-Oja <i>et al.</i>	
	U157	2002/0177232	A1	11-28-2002	Melker <i>et al.</i>	
	U158	2003/0004426	A1	01-02-2003	Melker <i>et al.</i>	
	U159	2003/0059820	A1	03-27-2003	Vo-Dinh	
	U160	2003/0008407	A1	01-09-2003	Fu	
	U161	2003/0087239	A1	05-08-2003	Stanton <i>et al.</i>	
	U162	2003/0139681	A1	07-24-2003	Melker <i>et al.</i>	
	U163	2003/0119065	A1	06-26-2003	Lin <i>et al.</i>	
	U164	2003/0216660	A1	11-20-2003	Ben-Oren <i>et al.</i>	
	U165	2004/0027246	A1	02-12-2004	Aguglia	
	U166	2004/0101477	A1	05-27-2004	Leyland-Jones	
	U167	2005/0065446	A1	03-24-2005	Talton	
	U168	09/708,789 (Application No.)		11-08-2000 (Date Filed)	Lampotang <i>et al.</i>	
	U169					
	U170					

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				Filing Date	January 19, 2005
				First Named Inventor	Richard J. Melker
				Group Art Unit	1743
				Examiner Name	Not yet assigned
Sheet	7	of	12	Attorney Docket Number	UF-404XC1

FOREIGN PATENT DOCUMENTS							
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		Code <sup>5</sup> Office <sup>3</sup> (known)	Kind Number <sup>4</sup> (if known)				
	F1	DE 19607646 (English Abstract)	A1	Muehlenberg <i>et al.</i>	09-11-1997		
	F2	DE 29902593 (English Abstract)		Genzyme Virotech GmbH	08-26-1999		
	F3	EP 0 370 151	A1	L'Air Liquide, S. A.	05-30-1990		
	F4	EP 0 979 997 (English Abstract)	A1	Siemens AG	02-16-2000		
	F5	GB 829,409	A	Governors of the United Birmin	03-02-1960		
	F6	GB 2 309 166	A	Cleansharp Limited	07-23-1997		
	F7	GB 2 329 245	A	Cavkit Limited	03-17-1999		
	F8	JP 08313407 (English Abstract)	A	Suzuki Motor Corp.	11-29-1996		
	F9	JP 09196915 (English Abstract)	A	Otsuka Pharmaceut Co. Ltd.	07-31-1997		
	F10	RU 2104535 C1 (English Abstract)		Kogan <i>et al.</i>	02-10-1998		
	F11	WO 87/02773	A1	Autosense Corp.	05-07-1987		
	F12	WO 92/10749	A1	Novapure Corporation	06-25-1992		
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	F14	WO 95/31718	A1	Forschungszentrum Karlsruhe GmbH	11-23-1995		
	F15	WO 98/57145	A1	Quadrivium, L.L.C.	12-17-1998		
	F16	WO 99/12471	A3	Oridion Medical Ltd.	03-18-1999		
	F17	WO 99/66304	A1	California Institute of Technology	12-23-1999		
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		Code <sup>5</sup> Office <sup>3</sup> known)	Number <sup>4</sup> Kind (if				
	F19		WO 00/67820 A1	Aneo AB	11-16-2000		
	F20		WO 00/79243 A1	Cyrano Sciences, Inc.	12-28-2000		
	F21		WO 01/34024 A1	University of Florida	05-17-2001		
	F22		WO 01/93743 A2	Healthtech, Inc.	12-13-2001		
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	F24		WO 03/016901 A1	Samsung Electronics Co., Ltd.	02-27-2003		
	F25		WO 03/045473 A1	Mufa Ag	06-05-2003		
	F26		WO 2004/065404 A1	University of Florida Research Foundation, Inc.	08-05-2004		
	F27						
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	R1	BALLANTINE, D. S. <i>et al.</i> , "Surface Acoustic Wave Devices for Chemical Analysis," <i>Anal. Chem.</i> (1989), Volume 61, number 11, pages 704A-712A.	
	R2	BRODY, E. N. <i>et al.</i> , "Aptamers as Therapeutic and Diagnostic Agents," <i>Reviews in Molecular Biotechnology</i> (2000), Volume 74, pages 5-13.	
	R3	BRODY <i>et al.</i> "The use of Aptamers in Large Arrays for Molecular Diagnostics," <i>Molecular Diagnosis</i> (1999), Volume 4, number 4, pages 381-388.	
	R4	CHANDIOK, S. <i>et al.</i> "Screening for Bacterial Vaginosis: A Novel Application of Artificial Nose Technology," <i>Journal of Clinical Pathology</i> (1997), Volume 50, pages 790-791.	
	R5	DICKINSON, T. A. <i>et al.</i> , "Current Trends in 'Artificial-Nose' Technology," <i>Tib Tech</i> , 1998, 16:250-258.	
	R6	FANG, M. <i>et al.</i> "Detection of Organic Chemicals by SAW Sensor Array," <i>Sensors and Actuators</i> (1999), Volume B56, pages 155-157.	
	R7	FISHER <i>et al.</i> "A man-portable chemical sniffer utilizing Novel Fluorescent polymers for detection of ultra-trace concentrations of explosives emanating from landmines," <i>Nomadics Inc.</i> (2000), PAGES 1-10.	
	R8	FRAUENDORF <i>et al.</i> , "Detection of Small Organic Analytes by Fluorescing Molecular Switches," <i>Bioorganic &amp; Medicinal Chemistry</i> 9, (2001), pp. 2521-2524.	
	R9	FUJITA <i>et al.</i> , "A Simple Method for Detecting Plasma Propofol," <i>Anesth. Analog.</i> , 2000, 90:1452-1454.	
	R10	GANGA-ZANDZOU, P.S. <i>et al.</i> "A 13C-urea breath test in children with <i>Helicobacter pylori</i> infection: validity of the use of a mask to collect exhaled breath sample," <i>Acta. Paediatr.</i> (2001), Volume 90, pages 232-233.	
	R11	GRATE, JW <i>et al.</i> "Determination of Partition Coefficients from Surface Acoustic Wave Vapor Sensor Responses and Correlation with Gas-Liquid Chromatographic Partition Coefficients," <i>Anal. Chem.</i> (1998), Volume 60, pages 869-875.	

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	R12	GROVES, W. <i>et al.</i> "Analyzing organic vapors in exhaled breath using a surface acoustic wave sensor array with preconcentration: Selection and characterization of the preconcentrator absorbent," <i>Analytica Chimica Acta</i> (1998), Volume 371, pages 131-143.	
	R13	HAMMON III, W. S. <i>et al.</i> , "Forensic GPR: Finite-Difference Simulations of Responses From Buried Human Remains," <i>Journal of Applied Geophysics</i> , (2000), 45:171-186.	
	R14	HANSON III, C.W. <i>et al.</i> "The use of a novel 'Electronic Nose' to diagnose the presence of intrapulmonary infection," <i>Anesthesiology</i> (1997), Volume 87, number 3A, abstract A269.	
	R15	HONG, C. <i>et al.</i> , "Carbon Nanotube-Enhanced Electrochemical DNA Biosensor for DNA Hybridization Detection" (2003), <i>Anal. Bioanal. Chem.</i> , 375:287-293.	
	R16	HUANG <i>et al.</i> , "Depth of Anesthesia Estimating & Propofol Delivery System," Aug. 1, 1996, <a href="http://www.rpi.edu/~royr/roy_descpt.html">http://www.rpi.edu/~royr/roy_descpt.html</a> .	
	R17	JAYASENA, "Aptamers: An Emerging Class of Molecules That Rival Antibodies in Diagnostics," <i>Clinical Chemistry</i> , 1999, 45(9):1628-1650.	
	R18	KENNY, "Target-Controlled Infusions –Pharmacokinetic and Pharmacodynamic Variations," <a href="http://www.anaesthesiologie.med.uni-erlangen.de/esctaic97/a_kenny.htm">http://www.anaesthesiologie.med.uni-erlangen.de/esctaic97/a_kenny.htm</a> .	6/12/2001
	R19	KUIPERS <i>et al.</i> , "First-pass Lung Uptake and Pulmonary Clearance of Propofol," <i>Anesthesiology</i> , (1999), 91:1780-1787.	
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	R22	MUELLER <i>et al.</i> "Experience in mass spectrometric identification in acute poisoning," <i>Beitr. Diagn. Ther. Akuter. Intox., Votr. Symp.</i> 4 <sup>th</sup> (1982), pages 126-134, ABSTRACT ONLY.	

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	R23	PANTAROTTO D. <i>et al.</i> , "Synthesis, Structural Characterization, and Immunological Properties of Carbon Nanotubes Functionalized with Peptides" (2003), <i>J. Am. Chem. Soc.</i> , 125:6160-6164.	
	R24	PARRY, A.D. <i>et al.</i> "Leg Ulcer Odour Detection Identifies $\beta$ -haemolytic Streptococcal Infection," <i>Journal of Wound Care</i> (1995), Volume 4, number 9, pages 404-406.	
	R25	PAVLOU and TURNER. "Sniffing out the truth: Clinical Diagnosis Using the Electronic Nose," <i>Clin. Chem. Lab. Med.</i> (2000), Volume 38, number 2, pages 99-112.	
	R26	PERRI, F. "Diagnosis of <i>Helicobacter pylori</i> infection: which is best? The urea breath test," <i>Dig. Liver. Dis.</i> (2000), Volume 32, Supp. 3, pages S196-198.	
	R27	PHILLIPS, M., "Breath Tests in Medicine," <i>Scientific American</i> , 1992, pages 52-57.	
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		Application Number	11/039,111		
		Filing Date	January 19, 2005		
		First Named Inventor	Richard J. Melker		
		Group Art Unit	1743		
		Examiner Name	Not yet assigned		
Sheet	12	of	12	Attorney Docket Number	UF-404XC1

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Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	R34	U.S. FOOD AND DRUG ADMINISTRATION, "FDA White Paper, Protecting the Public Health: FDA Pursues and Aggressive Enforcement Strategy," <a href="http://www.fda.gov/oc/whitepapers/enforce.html">www.fda.gov/oc/whitepapers/enforce.html</a> (06-30-2003).	
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	R36	UNITED STATES DEPARTMENT OF JUSTICE, "Review of the Drug Enforcement Administration's (DEA) Control of the Diversion of Controlled Pharmaceuticals," Report Number I-2002-010 <a href="http://www.usdoj.gov/oig/inspection/DEA/0210/background.htm">www.usdoj.gov/oig/inspection/DEA/0210/background.htm</a> (September 2002).	
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	R38	VASS, A., "Beyond the Grave – Understanding Human Decomposition," <i>Microbiology Today</i> , Nov. 2001, 28:190-192.	
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	R41		
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	R43		
	R44		

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